

AMENDMENTS TO THE CLAIMS

In the Claims:

The following listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently amended) A radio communication system comprising:

a plurality of transmitters each having at least one antenna for transmitting identical signals with same frequency band; and

a receiver for receiving said signals,

wherein said signals being transmitted from said at least one antenna of one transmitter of said plurality of transmitters is delayed an arbitrary delay time, and

wherein an output power, which is different from at least one delay output power in the other transmitters, is set in each of said plurality of transmitters.

2. (Previously presented) The radio communication system according to claim 1, wherein when signals are delayed at different arbitrary delay times in respective transmitters, a combination of output powers different from corresponding delay outputs in said other transmitters is set in said respective transmitters.

3. (Previously presented) The radio communication system according to claim 1, wherein said receiver comprises an equalizer for demodulating a signal transmitted from at least one antenna in each of said transmitters.

4. (Currently amended) A radio communication system comprising:

a plurality of transmitters each having at least one antenna for transmitting identical signals with the same frequency band; and

a receiver for receiving said signals,

wherein said signals ~~being~~ supplied to the antennas are obtained by differently delaying modulated signals and carrying out weighting synthesization on the signals, and

wherein at least one of ~~the~~a delay amount and ~~the~~a weighting factor in each of said transmitters is set to a value different from the other transmitters.

5. (Previously presented) The radio communication system according to claim 4, wherein said receiver comprises an equalizer for demodulating a signal transmitted from at least one antenna in each of said transmitters.

6. (Currently amended) A radio communication system comprising:

a plurality of transmitters, each having a plurality of antennas for transmitting identical signals with the same frequency band; and

a receiver for receiving said signals,

wherein said signals ~~being~~ supplied to said plurality of antennas are obtained by differently delaying modulated signals and carrying out amplitude regulation on the signals, and

wherein at least one of ~~the~~a delay amount and ~~the~~a value of amplitude regulation is set to different values in each of said transmitters.

7. (Previously presented) The radio communication system according to claim 6, wherein said receiver comprises an equalizer for demodulating signals transmitted from said plurality of antennas.

8. (Currently amended) A transmitter characterized in that in the case where a plurality of transmitters transmit same signals with same frequency band, at least one antenna is provided, ~~and~~ an arbitrary delay is given to said antenna ~~so that~~ and an output power_i which is different from at least one delay output power in the other transmitters_i is set.

9. (Previously presented) The transmitter according to claim 8, wherein when different delays as the arbitrary delays are given to a plurality of antennas, a combination of output powers which is different from corresponding delay outputs in the other transmitters is set.

10. (Currently amended) A transmitter characterized in that in the case where a plurality of transmitters transmit same signals with same frequency band, at least one antenna is provided, ~~and~~ signals which are supplied to respective antennas are signals which are obtained by differently delaying modulated signals and carrying out weighting synthesization on

the signals, and at least one of the ~~a~~ delay amount and the ~~a~~ weighting factor is set to a value different from the other transmitters.

11-12. (Canceled).

13. (New) A transmitter for use with a plurality of transmitters that transmit the same signals with the same frequency band, comprising:

a modulator to modulate the signals;

a signal filtering section, coupled to the modulator, to delay the modulated signals, to amplitude regulate the delayed signals and to synthesize the regulated signals with the modulated signals; and

at least one antenna, coupled to the signal filtering section, to transmit the synthesized signals to a receiver,

wherein at least one of a delay amount and an amplitude regulation value is set differently than respective values in the plurality of transmitters.

14. (New) The radio communication system according to claim 4, wherein weighting synthesization includes rotating a phase of the signals.

15. (New) The transmitter according to claim 10, wherein weighting synthesization includes rotating a phase of the signals.

16. (New) The radio communication system according to claim 14, wherein the weighting factor is 180 degrees.

17. (New) The transmitter according to claim 15, wherein the weighting factor is 180 degrees.

18. (New) The radio communication system according to claim 6, wherein said signals being supplied to said plurality of antennas are obtained by further carrying out phase rotation on the signals, and at least one of the delay amount and a value of phase rotation/amplitude regulation is set to different values in each of said transmitters.

19. (New) The transmitter according to claim 13, wherein the signal filtering section phase rotates the delayed signals, and at least one of the delay amount and a phase

rotation/amplitude regulation value is set differently than respective values in the plurality of transmitters.